

What is claimed is:

1. A line circuit for providing loopfeed current to a subscriber's line, comprising:

5 driver circuitry for driving said subscriber's line with said loopfeed current;

an input amplifier circuit connected to said subscriber's line for sensing and comparing current flowing in said line with a predetermined constant current and generating an error signal proportional to any difference therebetween; and

10 an integrator for receiving said error signal and in the event said error signal is less than a predetermined amount then controlling said driver circuitry with a variable voltage so as to maintain constant loopfeed current to said subscriber's line and in the event said error signal exceeds said predetermined amount generating a constant saturation voltage for controlling said driver circuit to provide a constant voltage feed to said subscriber's line.

15 2. The line circuit of claim 1, wherein said driver circuitry further comprises driver amplifiers for driving transistors connected to said subscriber's line.

20 3. The line circuit of claim 2, further comprising a feed resistors connected to said subscriber's line across which voltage develops which is proportional to said current flowing in said line, said feed resistors being connected in a circuit to differential inputs of said input amplifier circuit for detection of said voltage.

25 4. The line circuit of claim 4, further comprising input and current sense resistors connected across said feed resistors and to said differential inputs of said input amplifier.

30 5. The line circuit of claim 4, further comprising a source of reference voltage proportional to said predetermined constant current applied to one of said differential inputs of said input amplifier.